

BILL OF MATERIAL

(cast-in-place junction box culvert)

Bar	No.	Size	Length	Shape
a ₁	48	#5	7′-10"	
02	7	#4	6'-6"	
a 3	80	#7	9′-9″	
04	12	#4	8'-0"	
<i>as</i>	8	#6	2'-6"	
đ	9	#4	4'-6"	
h	10	#5	12'-2"	
h_I	14	#4	13'-6"	
h ₂	10	#5	12'-2"	
h3	9	#6	21'-5"	
h4	18	#4	21'-5"	
h5	9	#5	21'-5"	
h ₆	6	#5	9'-5"	
h7	6	#5	5′-8″	
he	<i>1</i> 5	#6	8'-2"	
hg	9	#6	11'-6"	
h ₁₀	11	#6	8'-0"	
h_{II}	8	#6	10'-6"	
h _{I2}	- 11	#6	8'-0"	
L	12	#5	4'-4"	
L_{I}	8	#5	3′-5"	
V	36	#4	4'-9"	
VI	54	#4	5′- <i>10</i> "	
V2	17	#5	8' 9"	
V3	8	#4	8′-9″	
Х	30	#4	5'-3"	
X1	6	#4	8'-0"	
X2	6	#4	6'-1"	
Concrete Box Culverts			Cu. Yd.	22.9
Reinforcement Bars			Pound	4860
3/4" Expansion Boits			Each	20

BILL OF MATERIAL

(cast-in-place 7'X5' box culvert extension)

Bar	No.	Size	Length	Shape
a1	76	#7	10'-3"	
0 g	1.1	#4	8'-6"	
d	8	#4	4'-6"	
h	11	#5	19'-8"	
ħj	16	#4	19'-8"	
ħε	12	#5	19'-8"	
hз	<i>1</i> 5	#6	8'-7"	
h4	9	#6	13'-6"	/
h5	11	#6	8'-0"	
h ₆	10	#5	10'-0"	
h ₇	12	#5	8'-0"	
V	58	#4	5′-9"	
Vį	19	#5	8'-9"	
V2	8	#4	8′-9"	
Concre	te Box	Cuiverts	Cu. Yd.	16.5
Reinforcement Bars			Pound	3520
3/4" E	xpansio.	Each	18	

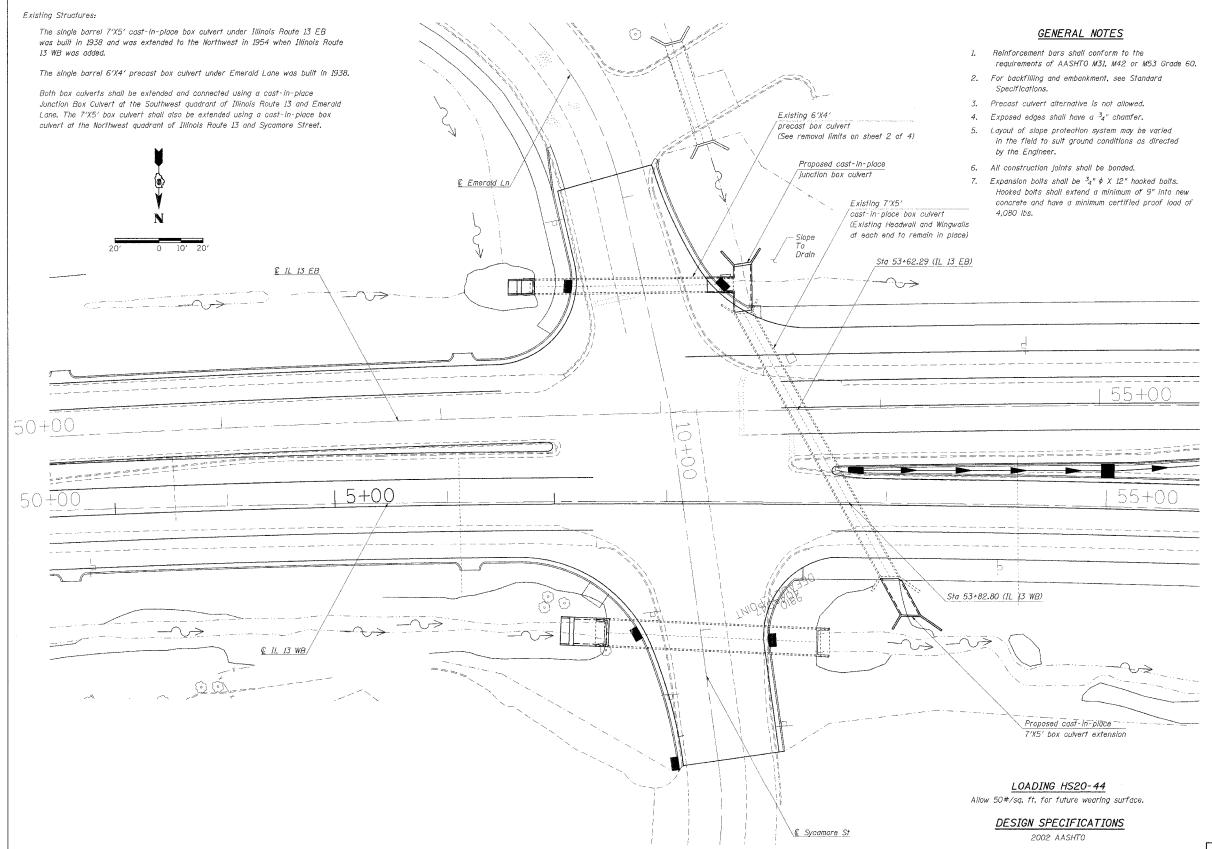
CAST-IN-PLACE BOX CULVERT EXTENSIONS AT IL 13 AND EMERALD LN/SYCAMORE ST STA 53+62.29 (EB) & STA 53+82.80 (WB)

DESIGN STRESSES

FIELD UNITS

fy = 60,000 psi (reinforcement)

f'o = 3,500 psi



PLAN

2/16/2006 ci/projects\d904403\juncbox 20.0000'' IN.